

Data Manipulation

Role of Controller

Communicating with other Devices

Communicating with Other

- ✓ Main memory and CPU form the core
- ✓ How they communicate with peripheral devices like printer, scanner, keyboard etc.
- ✓ Role of Controllers
- ✓ DMA
- ✓ Handshaking
- ✓ Communication media/Rates

Role of Controller

What is Controller

- ✓ Communication between computer and other devices.
- ✓ In case of PC, it is permanently mounted on motherboard.
- ✓ Or flexible to be attached.

Role of Controller

What is Controller

- ✓ It connects via cables to peripheral devices or to a connector called **Port**.
- ✓ They are themselves a small computer having their own CPU.
- ✓ Controller translates the messages back and forth.

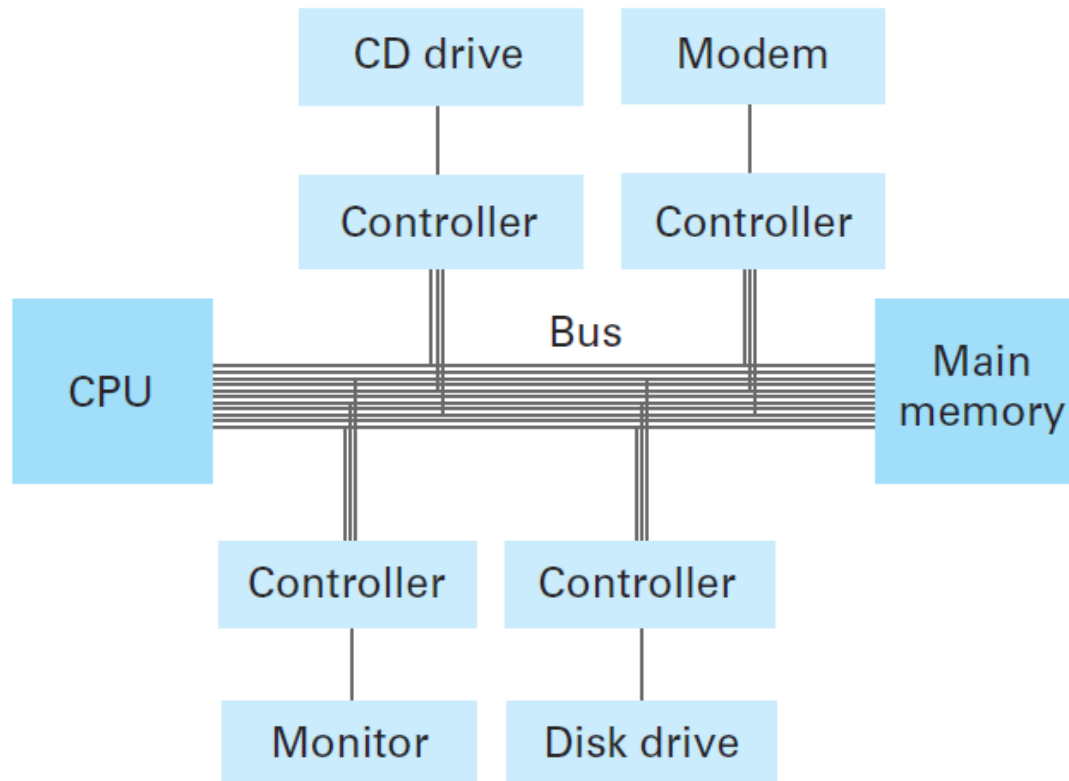
Role of Controller

What is Controller

- ✓ Originally each controller worked for only one device
- ✓ Now standard like USB (Universal Serial Bus).
- ✓ Firewire.

Role of Controller

How it works



Summary

Role of Controller

- ✓ What is controller.
- ✓ How it works.
- ✓ Ports
- ✓ Dedicated Controller
- ✓ USB Firewire